

Volume Contents

JANUARY-FEBRUARY 1980/VOLUME 3/NUMBER 1

ORIGINAL ARTICLES

- A Portable System for Continuous Intravenous Insulin Delivery: Characteristics and Results in Diabetic Patients**—AMIR K. HANNA, HOWARD L. MINUK, A. MICHAEL ALBISSER, ERROL B. MARLISS, BERNARD S. LEIBEL, AND BERNARD ZINMAN—1
- Normalization of Plasma Insulin Profiles in Diabetic Subjects with Programmed Insulin Delivery**—DAVID S. SCHADE, R. PHILIP EATON, AND WILLIAM SPENCER—9
- Comparison of High-Dose and Low-Dose Insulin by Continuous Intravenous Infusion in the Treatment of Diabetic Ketoacidosis in Children**—GEORGE A. BURGHEN, JAMES N. ETTELDORF, JOSEPH N. FISHER, AND ABBAS E. KITABCHI—15
- Natural History of Glucose Tolerance in Relatives of Diabetic Patients: Low Prognostic Value of the Oral Glucose Tolerance Test**—J. KÖBBERLING AND D. BERNINGER—21
- Provocation of Postural Hypotension by Nitroglycerin in Diabetic Autonomic Neuropathy?**—L. HUME, D. J. EWING, I. W. CAMPBELL, S. R. REUBEN, AND B. F. CLARKE—27
- The Effect of Transition from Traditional to Urban Life-Style on the Insulin Secretory Response in Australian Aborigines**—KERIN O'DEA, RANDOLF M. SPARGO, AND KIM AKERMAN—31
- Mineral and Vitamin Status on High-Fiber Diets: Long-term Studies of Diabetic Patients**—JAMES W. ANDERSON, SUSAN K. FERGUSON, DENNIS KAROUNOS, LINDA O'MALLEY, BEVERLY SIELING, AND WEN-JU LIN—38

BRIEF COMMUNICATIONS

- Influence of Smoking on Insulin Requirement and Metabolic Status in Diabetes Mellitus**—S. MADSBAD, P. McNAIR, M. S. CHRISTIANSEN, O. K. FABER, C. BINDER, AND I. TRANSBØLL—41
- Noneffect of Isoniazid on Urine Glucose Tests**—TIMOTHY H. SELF AND VICKI L. WESTER—44
- Glucose Tolerance and Blood Lipids in Bran-Fed Patients with Impaired Glucose Tolerance**—OTTAVIO BOSELLO, ROBERTO OSTUZZI, FABIO ARMELLINI, ROCCO MICCIOLO, AND LUDOVICO A. SCURO—46
- Pectin: An Examination in Normal Subjects**—LARRY A. GOLD, JEROME P. McCOURT, AND THOMAS J. MERIMEE—50
- Efficacy of Low-Dose Insulin Therapy for Severely Obtunded Patients in Diabetic Ketoacidosis**—LAWRENCE R. MORRIS AND ABBAS E. KITABCHI—53

SYMPOSIUM ON HOME BLOOD GLUCOSE MONITORING

- Chairman's Introduction**—SHELDON J. BLEICHER—57
- Characteristics of Glycemic Stability**—F. JOHN SERVICE AND ROGER L. NELSON—58
- Management of the Pregnant, Insulin-dependent Diabetic Woman**—LOIS JOVANOVIC AND CHARLES M. PETERSON—63
- Blood Glucose Control During Pregnancy**—JAY S. SKYLER, MARY JO O'SULLIVAN, EUAN G. ROBERTSON, DENISE L. SKYLER, KATHLEEN K. HOLSINGER, ILENE A. LASKY, ALLEN G. W. MCLEOD, GENE BURKETT, AND DANIEL H. MINTZ—69
- Pregnancy Complicating Ambulatory Patient Management of Diabetes**—JACK M. SCHNEIDER, JOHN F. HUDDLESTON, LUIS B. CURET, AND DEBORAH L. MENZEL—77
- Self-Management: An Approach to Patients with Insulin-dependent Diabetes Mellitus**—C. M. PETERSON, S. E. FORHAN, AND R. L. JONES—82
- Parameters of Good Control in Diabetes Mellitus**—T. S. DANOWSKI, P. OHLSEN, E. R. FISHER, AND J. H. SUNDER—88
- Diabetic Complications and Their Prevention or Reversal**—T. S. DANOWSKI, P. OHLSEN, AND E. R. FISHER—94
- Home Monitoring of Blood Glucose: New Approach to Management of Insulin-dependent Diabetic Patients in Great Britain**—P. H. SØNKSEN, SUE JUDD, AND CLARA LOWY—100
- New Techniques for Changing Compliance in Diabetes**—MARTYN SULWAY, HILARY TUPLING, KAREN WEBB, AND GILLIAN HARRIS—108
- Interpretation of Glycosuria in the Teenage Diabetic Patient**—P. S. MOFFITT—112
- Assessment of the Psychological Factors and Responses in Self-Managed Patients**—ANDRÉ DUPUIS—117
- Teaching Allied Health Professionals About Self-Management**—DONNELL D. ETZWILER—121
- Self-Management, Patient Compliance, and the Physician**—ARTHUR KROSCHICK—124

The Diabetes Educator's Role in Teaching the Diabetic Patient —JACQUELINE D. DUDLEY—127
Teaching Diabetic Patients About Self-Management —SUE JUDD AND P. H. SÖNKSEN—134
Virtually Continuous Euglycemia for 5 Yr in a Labile Juvenile-onset Diabetic Patient Under Noninvasive Closed-Loop Control —RICHARD K. BERNSTEIN—140
Patient Panel —144
Concluding Remarks —SHELDON J. BLEICHER, CHAIRMAN—148
A Critical Evaluation of Methods of Monitoring Diabetic Control —ROBERT TATTERSALL, SIMON WALFORD, IAN PEACOCK, EDWIN GALE, AND SIMON ALLISON—150
Feasibility of Blood Glucose Self-Monitoring in Unstable Insulin-dependent Diabetes —JOSE BARBOSA, LOIS MENTH, GEORGIA SCHUMACHER, SANDRA JOHNSON, AND JOHN NAJARIAN—155
A Program for Normal Glycemic Control of Insulin-dependent Diabetes —JOHN R. WILLIAMS, JR., AND KATHARINE ALLING—160
Self-Monitored Blood Glucose: The Essential Biofeedback Signal in the Diabetic Patient's Effort to Achieve Normoglycemia —KARL IRSIGLER AND CHRISTINE BALI-TAUBALD—163
Clinic- Rather than Self-Monitoring of Home Blood Samples: Relevance of Day-to-Day Variability to Decision Making —E. A. WARD, M. A. PHILLIPS, G. M. WARD, R. W. SIMPSON, R. MULLINS, AND R. C. TURNER—171
Self-Monitoring of Blood Glucose During Pregnancy in Women with Juvenile Diabetes —MOSHE KARP, ZIPORA FLEXER, GILA FAIMAN, EITHAN TOPPER, HANA NEEMAN, AND ZVI LARON—175
Discrepancies Between Glycosuria and Home Estimates of Blood Glucose in Insulin-treated Diabetes Mellitus —P. OHLSEN, T. S. DANOWSKI, D. H. ROSENBLUM, T. MREIDEN, E. R. FISHER, AND J. H. SUNDER—178
Effect of Blood Glucose Control on Retinal Vascular Permeability in Insulin-dependent Diabetes Mellitus —S. J. BLEICHER, T. Y. LEE, R. BERNSTEIN, L. SCHACHTER, R. TEMES, T. KRUPIN, J. SANTIAGO, B. BECKER, AND S. R. WALTMAN—184
REVIEW
Infection and Diabetes Mellitus —L. JOSEPH WHEAT—187
EDITORIALS
The Editor's Notebook —JAY S. SKYLER—198
For Reading on Writing —FRANCIS A. NEELON—198
LETTERS TO THE EDITOR
Diabetic Gastroparesis Without Autonomic Neuropathy —NORMAN G. SOLER—200
Community Outreach in Diabetes: The Kentucky Protocol —STEVEN B. LEICHTER, PEGGY COLLINS, SUSAN FERGUSON, AND ANN RHODES—201
Influence of Pregnancy on Plasma Glucagon Levels in IDD Women —FRANCESCO FALLUCCA, ALESSANDRO RUSSO, SIMONA MELILLI, FABRIZIO DE GADO, CARMELO PEDULLÀ, ONORINA SCARCIOTTA, AND ANTONIO PACHÌ—202
Immunologic Reactions to Insulin —MARK N. FEINGLOS—204
Treating the Common Cold in Diabetic Children —GERALD MERRITT—204
Beta Blockers and Hypoglycemia —A. D. WRIGHT AND MARY E. PENNY—204
Generic Nonequivalence of Insulin Syringes —ALAN SACERDOTE, TERRI KIVELOWITZ, SHELDON BLEICHER, AUDREY CAESAR, CARMEN BYAM, AND VINCE CARACCIOLLO—205
ORGANIZATION SECTION—XXX

MARCH-APRIL 1980/VOLUME 3/NUMBER 2

ORIGINAL ARTICLES

Peripheral Vascular Disease in Diabetes Mellitus and Its Relation to Cardiovascular Risk Factors: Screening with the Doppler Ultrasonic Technique —HANS U. JANKA, EBERHARD STANDL, AND HELLMUT MEHNERT—207
Deterioration of Diabetic Patients' Knowledge and Management Skills as Determined During Outpatient Visits —PATRICIA A. LAWRENCE AND JEAN CHEELY—214
Alternate Routes of Insulin Delivery —KARL IRSIGLER AND HARALD KRITZ—219
The Peritoneum—A Potential Insulin Delivery Route for a Mechanical Pancreas —DAVID S. SCHADE AND R. PHILIP EATON—229
Diabetes Mellitus as an Emerging Public Health Problem on Guam —TIMOTHY T. KUBERSKI AND PETER H. BENNETT—235

BRIEF COMMUNICATIONS

Glucose and Insulin Response to High Carbohydrate Meals in Normal and Maturity-onset Diabetic Subjects —DAVID S. SCHADE, R. P. EATON, WILLIAM MITCHELL, AND THERESA ORTEGA—242
Effect of Alcohol Intake on Symptomatic Peripheral Neuropathy in Diabetic Men —DAVID K. McCULLOCH, IAN W. CAMPBELL, ROBIN J. PRESCOTT, AND BASIL F. CLARKE—245
The Significance of the Cerebrospinal Fluid Examination in the Management of Chlorpropamide-induced Hypoglycemia —NAOMI KAPLINSKY AND OTTO FRANKL—248
Absence of a Relationship Between Smoking and Diabetic Microangiopathy —KELLY M. WEST, LINDA S. ERDREICH, AND JUDY A. STÖBER—250

PROCEEDINGS OF THE KROC FOUNDATION INTERNATIONAL CONFERENCE: INSULIN DELIVERY DEVICES

Introduction —R. PHILIP EATON—253
Role of Liver in Insulin Physiology —JAMES B. FIELD, SVEN ROJDMARK, PHILIP HARDING, TOSHIHIKO ISHIDA, AND MARGARET C. Y. CHOU—255
Role of the Liver in Glucose Homeostasis —ROBERT S. SHERWIN—261

- Insulin Kinetics, Models, and Delivery Schedules**—MONES BERMAN—266
- "Normal" Insulin Secretion: The Goal of Artificial Insulin Delivery Systems?**—R. PHILIP EATON, RICHARD C. ALLEN, DAVID S. SCHADE, AND JAMES C. STANDEFER—270
- Hyperinsulinism Complicating Control of Diabetes Mellitus by an Artificial Beta-Cell**—DAVID L. HORWITZ, ADINA ZEIDLER, BOAS GONEN, AND JONATHAN B. JASPAN—274
- Considerations for the Programming of an Open-Loop Insulin Infusion Device from the Biostator Glucose Controller**—F. J. SERVICE, R. A. RIZZA, R. E. WESTLAND, L. D. HALL, R. L. NELSON, M. W. HAYMOND, A. H. CLEMENS, AND J. E. GERICH—278
- Glucose Responses to Hypoglycemia in Type I Diabetic Men After 24-hour Glucose Regulation by Glucose-controlled Insulin Infusion**—JOHN W. ENSINCK AND ROBERT A. KANTER—285
- Continuous Subcutaneous Insulin Infusion in the Treatment of Diabetes Mellitus**—J. C. PICKUP, H. KEEN, G. C. VIBERTI, M. C. WHITE, E. M. KOHNER, J. A. PARSONS, AND K. G. M. M. ALBERTI—290
- Treatment of Juvenile-onset Diabetes by Subcutaneous Infusion of Insulin with a Portable Pump**—ROBERT S. SHERWIN, WILLIAM V. TAMBORLANE, MYRON GENEL, AND PHILIP FELIG—301
- Control of Insulin-dependent Diabetes with Portable Miniaturized Infusion Systems**—K. D. HEPP, R. RENNER, K. PIWERNETZ, AND H. MEHNERT—309
- Prolonged Peritoneal Insulin Infusion in a Diabetic Man**—DAVID S. SCHADE, R. PHILIP EATON, NEAL M. FRIEDMAN, AND WILLIAM SPENCER—314
- Closing the Loop: Practical and Theoretical**—CHARLES M. PETERSON, LOIS B. JOVANOVIC, MICHAEL BROWNLEE, ROBERT L. JONES, AND ANTHONY CERAMI—318
- For Insulin Infusion: A Miniature Precision Peristaltic Pump and Silicone Rubber Reservoir**—W. S. JACKMAN, W. LOUGHEED, E. B. MARLISS, B. ZINMAN, AND A. M. ALBISSER—322
- Electronic Flow Rate Controller for a Portable Insulin Infusion Pump**—R. T. FERGUSON, B. ZINMAN, E. B. MARLISS, AND A. M. ALBISSER—332
- New Devices and Methods for Long-term Vascular Access for Blood Sampling and Insulin Infusion**—A. BAHORIC, R. M. FILLER, K. PERLMAN, W. S. JACKMAN, AND A. M. ALBISSER—338
- Some Engineering Aspects of Insulin Delivery Systems**—W. J. SPENCER, R. E. BAIR, G. A. CARLSON, J. T. LOVE, R. S. URENDA, R. P. EATON, AND D. S. SCHADE—345
- A Totally Implantable Drug Infusion Device: Laboratory and Clinical Experience Using a Model with Single Flow Rate and New Design for Modulated Insulin Infusion**—HENRY BUCHWALD, THOMAS D. ROHDE, FRANK D. DORMAN, JAMES G. SKAKOON, BRUCE D. WIGNESS, FRANK R. PROSL, ELTON M. TUCKER, THOMAS G. RUBLEIN, PERRY J. BLACKSHEAR, AND RICHARD L. VARCO—351
- Programmable Open-Loop Micropump Insulin Delivery System**—A. H. CLEMENS—359
- Development of Program-controlled Portable Insulin Delivery Devices**—K. PRESTLE, M. FRANETZKI, AND H. KRESSE—362
- Clinical Assessment of Metabolic Control in Insulin-dependent Diabetes Mellitus**—JAY S. SKYLER AND K. G. M. M. ALBERTI—369
- SPECIAL ARTICLES**
- Prepregnancy Counseling: A Logical Prelude to the Management of the Pregnant Diabetic Woman**—J. M. STEEL, J. PARBOOSINGH, R. A. COLE, AND L. J. P. DUNCAN—371
- Clinical Features of Diabetes Mellitus in Japan**—SHIGEAKI BABA AND SOICHIRO MORITA—374
- Behavioral and Psychosocial Issues in Diabetes: Summary of Proceedings of the National Conference**—BEATRIX A. HAMBURG, LOIS F. LIPSETT, ALLAN L. DRASH, AND GALE E. INOFF—379
- The Memphis Diabetes Continuing Care Program**—JOHN W. RUNYAN, JR., ROGER VANDER ZWAAG, M. BEVERLY JOYNER, AND STEPHEN T. MILLER—382
- YOUTH EDUCATION**
- Drinking and Diabetes**—ROBERT J. WINTER—387
- POLICY STATEMENT**
- Fast Food Restaurants**—ADA COMMITTEE ON FOOD AND NUTRITION AND THE SCIENTIFIC ADVISORY PANEL OF THE EXECUTIVE COMMITTEE—389
- REVIEW**
- Fructose, Xylitol, and Sorbitol**—JERROLD M. OLEFSKY AND PHYLLIS CRAPO—390
- COMMENTARY**
- Gestational Diabetes and the White Classification**—JOHN W. HARE AND PRISCILLA WHITE—394
- EDITORIAL**
- Diabetes Mellitus: At Least Two Distinct Entities**—JAY S. SKYLER—395
- LETTERS TO THE EDITOR**
- Multidisciplinary Ambulatory Care for Diabetic Children**—ARLAN L. ROSENBLOOM—397
- Multidisciplinary Ambulatory Care for Diabetic Children: Reply**—ZVI LARON—398
- Reuse of Disposable Syringes**—ARNOLD BLOOM—398

SESSION I. METABOLIC IMPLICATIONS OF MILD DISTURBANCES IN MATERNAL CARBOHYDRATE TOLERANCE

Gestational Diabetes 1979: Philosophical and Practical Aspects of a Major Public Health Problem—NORBERT FREINKEL—399

Effects of Gestational Diabetes on Diurnal Profiles of Plasma Glucose, Lipids, and Individual Amino Acids—BOYD E. METZGER, RICHARD L. PHELPS, NORBERT FREINKEL, AND IRENE A. NAVICKAS—402

Quantitative Estimation of Systemic Glucose Production in Normal and Diabetic Pregnancy—SATISH C. KALHAN AND PETER A. J. ADAM—410

Relationships of Lipoprotein Lipids to Mild Fasting Hyperglycemia and Diabetes in Pregnancy—ROBERT H. KNOPP, MARGARET CHAPMAN, ROBERT BERGELIN, PATRICIA W. WAHL, MARIA R. WARTH, AND SUSAN IRVINE—416

Relative Sensitivity of Postpartum Gestational Diabetic Women to Oral Contraceptive Agents and Other Metabolic Stress—RONALD K. KALKHOFF—421

SESSION II. EFFECTS OF MILD MATERNAL HYPERGLYCEMIA ON FETAL DEVELOPMENT

Perinatal Islet Function in Gestational Diabetes: Assessment by Cord Plasma C-Peptide and Amniotic Fluid Insulin—EDWARD S. OGATA, NORBERT FREINKEL, BOYD E. METZGER, RICHARD L. PHELPS, RICHARD DEPP, JOHN J. BOEHM, AND SHARON L. DOOLEY—425

Fetal Macrosomia—Animal Models—ROBERT SCHWARTZ AND JOHN SUSA—430

DISCUSSIONS

The Relationship Between Maternal Glycemia and Macrosomia—JAY S. SKYLER, MARY JO O'SULLIVAN, AND KATHLEEN K. HOLSINGER—433

Effects of Maternal Hyperglycemia on Fetal Development—RONALD A. CHEZ—435

SESSION III. SCREENING EXPERIENCES: PHILOSOPHY, TECHNIQUES, AND OUTCOME

Establishing Criteria for Gestational Diabetes—JOHN B. O'SULLIVAN—437

Screening for Abnormalities of Carbohydrate Metabolism in Pregnancy 1966–1977: The Belfast Experience—D. R. HADDEN—440

Outcome of Diabetes Screening in Pregnancy and Perinatal Morbidity in Infants of Mothers with Mild Impairment in Glucose Tolerance—JORGE H. MESTMAN—447

A Pilot Community-Based Screening Program for Gestational Diabetes—IRWIN R. MERKATZ, METHOD A. DUCHON, TOYOKO S. YAMASHITA, AND HAROLD B. HOUSER—453

Gestational Diabetes: Infant and Maternal Complications of Pregnancy in Relation to Third-Trimester Glucose Tolerance in the Pima Indians—DAVID J. PETTITT, WILLIAM C. KNOWLER, H. ROBERT BAIRD, AND PETER H. BENNETT—458

DISCUSSIONS

Early Diabetes During Pregnancy—WERNER OPPERMANN AND RAFAEL A. CAMERINI-DAVALOS—465

Screening for Gestational Diabetes—R. W. BEARD, M. D. G. GILLMER, N. W. OAKLEY, AND PHILIPPA J. GUNN—468

SESSION IV. EFFECTS OF INTERVENTION IN GESTATIONAL DIABETES

Nutritional Requirements in Normal Pregnancy—ROY M. PITKIN—472

Obesity in Pregnancy: The Effect of Dietary Advice—C. BORBERG, M. D. G. GILLMER, E. J. BRUNNER, PHILIPPA J. GUNN, N. W. OAKLEY, AND R. W. BEARD—476

Insulin Treatment and High Risk Groups—JOHN B. O'SULLIVAN AND CLARE M. MAHAN—482

Effects of Identifying a High Risk Population—STEVEN G. GABBE—486

Maximal Tolerated Insulin Therapy in Gestational Diabetes—G. D. ROVERSI, M. GARGIULO, U. NICOLINI, E. FERRAZZI, E. PEDRETTI, L. GRUFFI, AND G. TRONCONI—489

DISCUSSIONS

Results of Individualized Intervention in Gestational Diabetes—MICHAEL T. GYVES, PATRICIA K. SCHULMAN, AND IRWIN R. MERKATZ—495

Effect of Intervention in Gestational Diabetes—J. J. HOET—497

SESSION V. REPORT OF WORKSHOP CHAIRMEN

Summary and Recommendations—499

JULY-AUGUST 1980/VOLUME 3/NUMBER 4

ORIGINAL ARTICLES

Hemoglobin A_{1c} Levels in Children and Adolescents with Diabetes Mellitus—DAVID E. GOLDSTEIN, BETH WALKER, SHARON S. RAWLINGS, RANDALL L. HESS, JACK D. ENGLAND, STEVEN B. PETH, AND JOHN E. HEWETT—503

Glycosylated Hemoglobin in Diabetes Mellitus: Correlations with Fasting Plasma Glucose, Serum Lipids, and Glycosuria—H. ALEY-ASSINE, R. J. GARDINER, D. B. TONKS, AND P. KOCH—508

The Effect of Dietary Fiber on Glucose and Hormone Responses to a Mixed Meal in Normal Subjects and in Diabetic Subjects With and Without Autonomic Neuropathy—NAOMI S. LEVITT, ARTHUR I. VINIK, ALAN A. SIVE, PAT T. CHILD, AND W. P. U. JACKSON—515

The Effect of Bran on Glucose Kinetics and Plasma Insulin in Non-insulin-dependent Diabetes Mellitus—SUSAN E. H. HALL, T. M. BOLTON, AND G. HETENYI, JR.—520

BRIEF COMMUNICATIONS

Clinical Course of Myocardial Infarction Among Diabetic Patients—ARTUR CZYŻYK, ANDRZEJ S. KRÓLEWSKI, SYLVIA SZABŁOWSKA, ALEKSANDRA ALOT, AND JAN KOPCZYŃSKI—526

Ocular Surgery in Patients with Diabetic Nephropathy—N. ABOURIZK, M. ISHAQ ARASTU, T. ARORA, J. C. BRIONES, A. KALDANY, L. M. AIELLO, AND J. A. DELIA—530

Perception of Severity of Disease and Health Locus of Control in Compliant and Noncompliant Diabetic Patients—MARIA ALOGNA—533

Measurement and Modification of the Accuracy of Determinations of Urine Glucose Concentration—LEONARD H. EPSTEIN, P. CHRIS COBURN, DOROTHY BECKER, ALLAN DRASH, AND LINDA SIMINERIO—535

CASE REPORTS

Nesidioblastosis, Islet Cell Hyperplasia, and Adenomatosis in a Case of Metastasizing Insulinoma: Contribution to the Genesis of the Islets of Langerhans—ANTHONY S.-Y. LEONG, ANTHONY H. SLAVOTINEK, AND BRUCE A. HIGGINS—537

The Value of Electrocardiogram Monitoring in Diabetic Ketoacidosis—JOHN I. MALONE AND SIDNEY J. BRODSKY—543

SPECIAL ARTICLES

Diabetes Research and Training Centers: Science, Application, Training, and Translation—BARBARA C. HANSEN AND MARILYN D. COHN—548

Baby Food Exchanges and Feeding the Diabetic Infant—MARIAN M. BENZ AND ELAINE KOHLER—554

REVIEW

Contraception for the Insulin-dependent Diabetic Woman: The View from One Clinic—J. M. STEEL AND L. J. P. DUNCAN—557

EDITORIALS

Toward Successful Transplantation of the Endocrine Pancreas—JOSHUA MILLER—561

Glycosylated Hemoglobin: A Tool in Identifying Psychological Problems?—WENDY CITRIN, GEORGE J. ELLIS, III, AND JAY S. SKYLER—563

Selecting Criteria for the Diagnosis of "Diabetes Mellitus"—JOHN B. O'SULLIVAN AND STEFAN S. FAJANS—565

LETTERS TO THE EDITOR

Noneffect of Oral Tetracycline on Urine Glucose Determination by the Copper Reduction Method—VICKI L. WESTER AND TIMOTHY H. SELF—567

"Percent" Instead of "Plus"—DOUGLAS A. KAVELMAN—568

Insulin "Pseudoresistance" in DKA—ALFRED J. PADILLA, L. COURTENAY BEEBE, MOHAN L. HIREGOUDAR, AND PETER W. RUFLETH—568

Potassium Phosphate and Potassium Chloride in the Treatment of DKA—MICHAEL M. BARSOTTI—569

Sodium:Water Ratio in CSF and Serum—M. L. HALPERIN, M. B. GOLDSTEIN, I. SAJO, AND S.-C. TAM—569

The Danger of a Changing Renal Threshold for Glucose—KENNETH R. FEINGOLD—570

BOOKS—572

SEPTEMBER-OCTOBER 1980/VOLUME 3/NUMBER 5

ORIGINAL ARTICLES

Effects of Oral Fructose in Normal, Diabetic, and Impaired Glucose Tolerance Subjects—PHYLLIS A. CRAPO, ORVILLE G. KOLTERMAN, AND JERROLD M. OLEFSKY—575

A Comparison of Carbohydrate Metabolism After Sucrose, Sorbitol, and Fructose Meals in Normal and Diabetic Subjects—SUAT AKGÜN AND NORMAN H. ETEL—582

Changes in Basement Membrane Thickening and Pulse Volume Concomitant with Improved Glucose Control and Exercise in Patients with Insulin-dependent Diabetes Mellitus—CHARLES M. PETERSON, ROBERT L. JONES, JAMES A. ESTERLY, GEORGE E. WANTZ, AND ROBERT L. JACKSON—586

Glycosylation of Variant Hemoglobins in Normal and Diabetic Subjects—JAY M. SOSENKO, RUDOLF FLÜCKIGER, ORAH S. PLATT, AND KENNETH H. GABBAY—590

The Relationship Between the Health Belief Model and Compliance of Persons with Diabetes Mellitus—KATHY A. BLOOM CERKONEY AND LAURA K. HART—594

The Importance of Self-Assessed Health in Patients with Diabetes—MARGARET W. LINN, BERNARD S. LINN, JAY S. SKYLER, AND RACHEL HARRIS—599

Control of Maturity-onset Diabetes by Monitoring Fasting Blood Glucose and Body Weight—S. HOWE-DAVIES, R. W. SIMPSON, AND R. C. TURNER—607

CASE REPORT

Malignant External Otitis: Now a Medical Problem—JOSEPH A. GIORDANO AND JOHN PHILLIPS—611

SPECIAL ARTICLES

Insulin Treatment for the Early 80s: Facts and Questions About Old and New Insulins and Their Usage—JOHN A. GALLOWAY—615

Intermediate-acting Insulin Preparations: NPH and Lente—TORSTEN DECKERT—623

PRACTICAL DIABETES

Initiating Exercise Programs for Patients with Non-insulin-dependent Diabetes—RUTH K. BEEKEN—627

REVIEW

Alcohol and Diabetes—JANET McDONALD—629

EDITORIAL

A Plethora of Insulins—JAY S. SKYLER—638

LETTERS

Accurate Home Glucose Monitoring Without a Meter—PAUL KUBILIS AND ARLAN L. ROSENBLUM—640

Association of Smoking with Insulin Requirement and Serum Triglyceride Level—KELLY M. WEST—641

ORIGINAL ARTICLES

Improved Control in Diabetes with Continuous Subcutaneous Insulin Infusion—ALICIA SCHIFFRIN, ELEANOR COLLE, AND MIMI BELMONTE—643

Incidence and Prevalence of Clinical Peripheral Vascular Disease in a Population-based Cohort of Diabetic Patients—L. JOSEPH MELTON III, KATHLEEN M. MACKEN, P. J. PALUMBO, AND LILA R. ELVEBACK—650

Plasma Antithrombin III and Thrombin Generation Time: Correlation with Hemoglobin A₁ and Fasting Serum Glucose in Young Diabetic Women—JAMES R. SOWERS, MICHAEL L. TUCK, AND DILEK K. SOWERS—655

Effect of Guar Gum on 24-hour Insulin Requirements of Insulin-dependent Diabetic Subjects as Assessed by an Artificial Pancreas—J. SANDAHL CHRISTIANSEN, V. BONNEVIE-NIELSEN, P. AABY SVENDSEN, P. RUBIN, B. RØNN, AND J. NERUP—659

Computer-planned Menus for Patients with Diabetes Mellitus—MADELYN L. WHEELER AND LAWRENCE A. WHEELER—663

Evaluating a Learning Device for Juvenile Diabetic Children—JAMES V. HESTON AND SUSAN J. LAZAR—668

BRIEF COMMUNICATIONS

The Influence of Renal Threshold on the Interpretation of Urine Tests for Glucose in Diabetic Patients—S. WALFORD, M. McB. PAGE, AND S. P. ALLISON—672

Hypoglycemia and Hemostatic Parameters in Juvenile-onset Diabetes—J. HILSTED, S. MADSBAD, J. DALSGAARD NIELSEN, T. KRARUP, L. SESTOFT, AND J. GORMSEN—675

Diabetic Staff Simulation of Insulin-dependent Diabetic Life—T. A. WELBORN AND NINA DUNCAN—679

MINI-REVIEW: RECENT LITERATURE

Diabetes in the Internal Medicine Literature—CHARLES R. SHUMAN—682

REVIEW

Research on Diabetes Management and the Family: A Critique—BARBARA J. ANDERSON AND WENDY F. AUSLANDER—696

LETTERS TO THE EDITOR

Dietary Cyanide and Tropical Malnutrition Diabetes—J. C. DAVIDSON—703

C-Peptide and HLA Antigens in Long-standing Juvenile Diabetes—GUY E. JORON, JOSEPH SHUSTER, AND JAMES L. WEBB—703

Multiple Daily s.c. Insulin Doses—JILL D. NELSON, BERNARD ZINMAN, AND ERROL B. MARLISS—704

Self-Administration of Insulin by a Hemiplegic Individual—HANNA MAY KEON AND AMIR K. HANNA—705

Diabetes and Pregnancy: A Plea for Uniform Data Reporting—M. I. DRURY—705

Diabetic Lipemia in Childhood Diabetic Ketoacidosis: A Clue to Coexisting Acute Pancreatitis—ROBERT J. WINTER, THOMAS J. HERR, NEIL J. STONE, AND HOWARD S. TRAISMAN—706

Diabetes and Myocardial Infarction—ROBERT MATZ—707

BOOKS—709

VOLUME CONTENTS—XXI

SUBJECT INDEX—XXVII

AUTHOR INDEX—XXXIV

